

## Introduction

The Xaap inspection tool suite is composed of two primary parts.

1. Xaap Rev3 Gateway. (Figure 1a)
2. Xaap Mobile. (Figure 1b)



Figure 1a

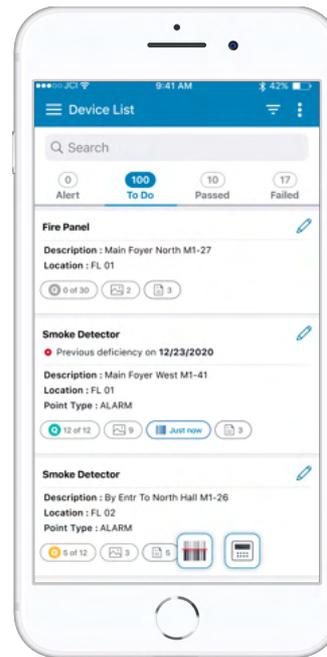


Figure 1b

The suite enables the inspector to pull inventory from a Fire Alarm Control Panel (FACP) test addressable devices on the panel and send commands back to the panel. The inventory and results of the inspection are all saved to Xaap cloud services. They are accessible through the mobile application and can be used to generate reports.

## Supported Panels

The Rev3 gateway is compatible with the following FCAPs:

- 4007ES
- 4100ES
- 4010ES
- 4100U

## Step 1: Connect fire panel serial cable to Rev3 gateway

 **Tip:** Before beginning it is advised you connect the gateway to the fire panel before you power on the Rev3 gateway.

Insert the fire panel serial cable to the gateway using the “Gateway Connector” end of the cable (see figure 2a). The fire panel serial cable port is located inside the case of the gateway (see figure 2b). Tighten screws on both sides of the gateway connector to ensure the connection is secure.

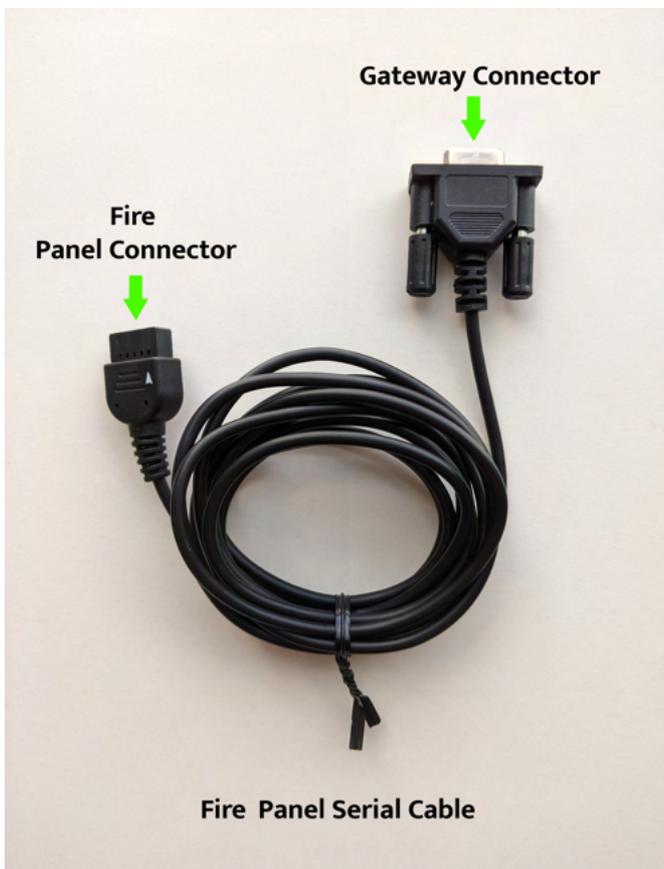


Figure 2a



Figure 2b

 **Note:** We recommend you keep the fire panel serial cable connected to the gateway after disconnecting the gateway from the panel for future inspections.

## Step 2: Connect the fire panel serial cable to the panel



**Tip:** Before beginning it is advised you connect the gateway to the fire panel before you power on the Rev3 gateway.

The images below show the location of the fire panel serial cable port for each panel supported by the Rev3 gateway.

### 4007ES

The fire panel serial cable has a white arrow on the connector. It is important to line this up correctly. Figure 3a shows the connection to a 4007ES. In this case, the connector plugs into a circuit board behind the front panel of the FACP. The white arrow should be on the top right of the connector when plugging it in.

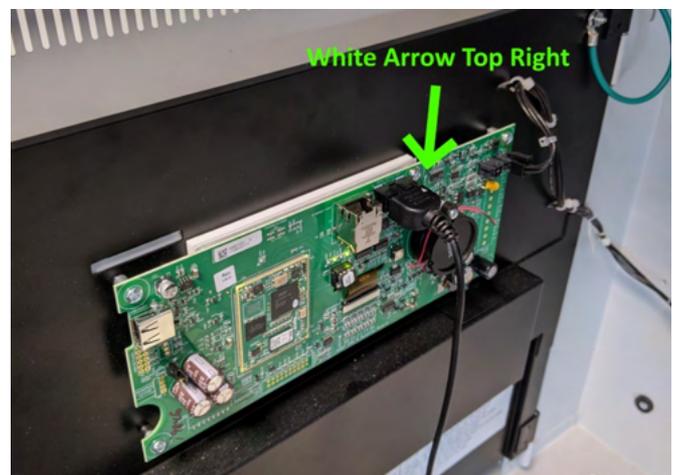


Figure 3a

### 4100ES/4100U

In the case of the 4100ES and 4100U (Figure 3b) the connector plugs into an expansion card of the main CPU board. The white arrow should be on the top left on the reverse side of the connector when it is inserted, i.e., the arrow should not be visible from the front. Take care when inserting the connector as the expansion card can sometimes be held in place quite loosely.

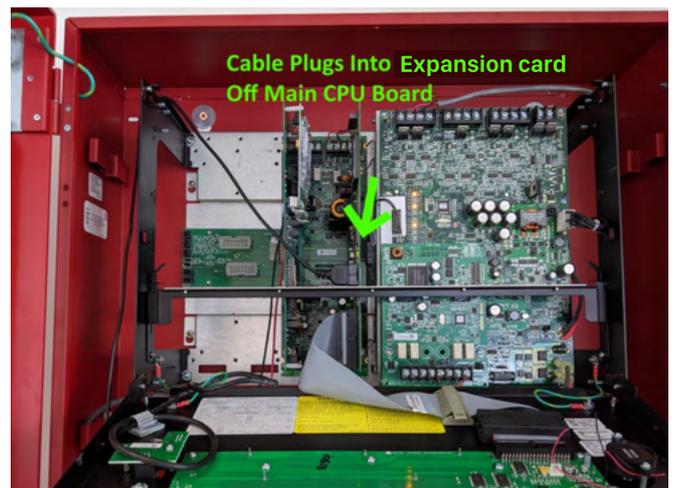


Figure 3b

## 4100U

Additionally, for the 4100U panel, the fire panel serial cable can be connected to the front of the panel (see figure 4a). The white arrow on the connector should be facing towards the ground (see figure 4b).



Figure 4a



Figure 4b

## 4010ES

Figures 5a & 5b show the connection to a 4010ES. In this case, the connector plugs into a circuit board behind the front panel of the FACP. The white arrow should be on the top right of the connector when plugging it in.



Figure 5a

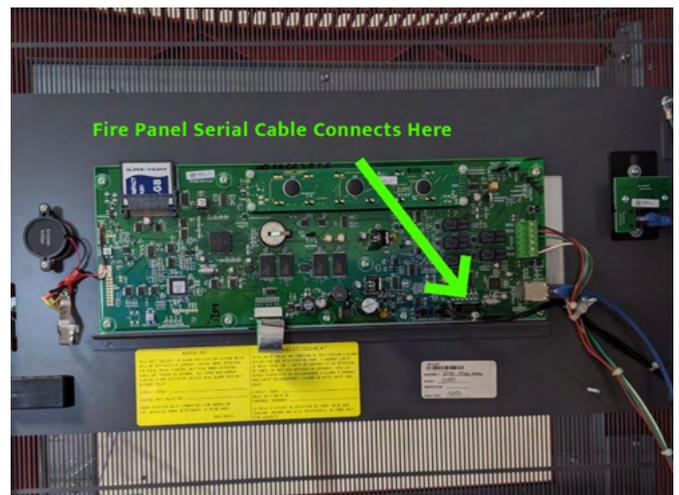


Figure 5b

### Step 3: Power on gateway and connecting to Xaap Cloud

**Tip:** If you inadvertently connect to the fire panel with the gateway powered on, we suggest that you reset the fire panel to ensure there are no communication problems between the gateway and the panel.

Once the gateway is connected to the panel, you can now turn on the gateway. The on/off switch is located inside the gateway's case on the battery underneath the gateway (see figure 6a). The LED lights on the gateway will indicate if the gateway is on and connected to the internet.

#### LED indicator guide:

- **Power** - Steady Red when power is on.
- **Status** - Blinks green every 1 second.
- **WIFI** - Off when WIFI is disabled, steady green when WIFI is enabled.
- **3G/4G** - Blinks green when connecting, and steady green when connected to cellular network. Off when not configured.

If the gateway is on and connected to a cellular network, the power LED will be solid red, the status LED will blink green and the 3G/4G LED will be solid green (see figure 6b).

The gateway is now connected to the panel and the internet, you are now ready to use the gateway in an inspection via the mobile app.



Figure 6a



Figure 6b

## Performing an inspection using the rev3 gateway

**Note:** We are using the Fire Alarm v2 inspection type as an example for the guide below. You can also use the gateway in a Joint Commission, DNV and Sprinkler inspection. Please note that the options presented during the inspection setup might vary slightly from the ones below, depending on the inspection type selected.

Open the Xaap application on your mobile device and follow the steps below:

1. Tap on 'Search a building to start'.
2. Type in the building name or address and select building from the list of results.
3. Tap the 'Create Inspection' tile in the building information screen .

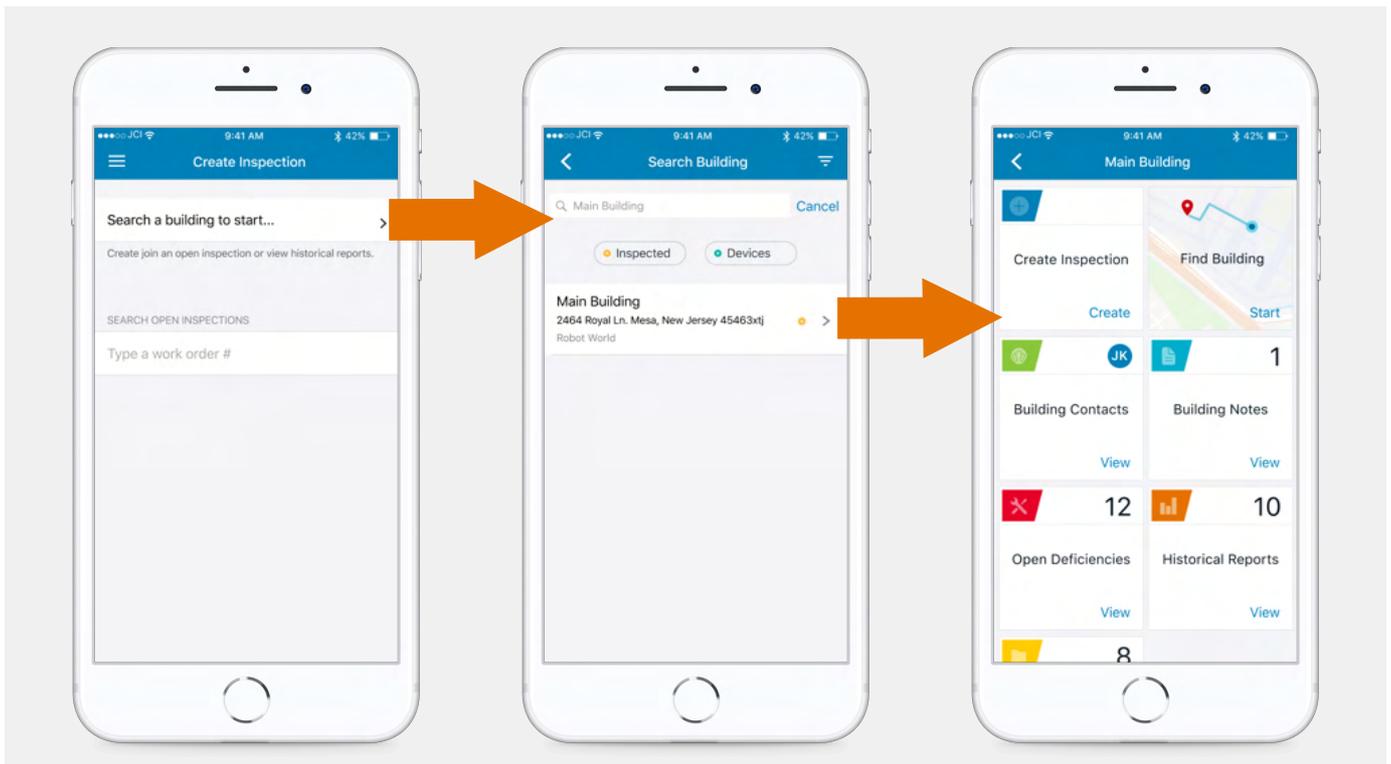


Figure 7: Searching for building

4. Select "Add Work Order Number", type in work order number and tap "Confirm", then select "Next" in the top right corner of the screen. (See figure 8)

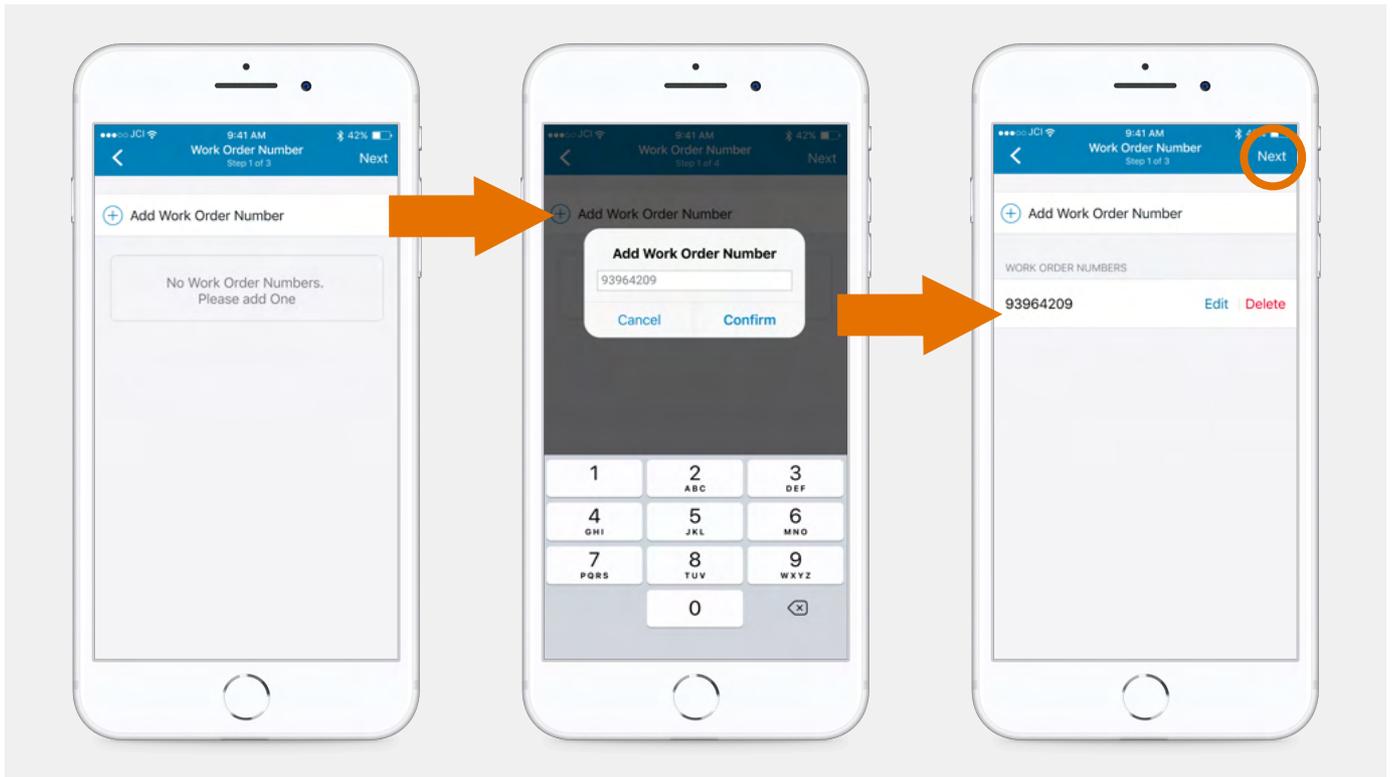


Figure 8: Adding a Work Order Number

5. Select the inspection type and the frequency.

6. In the Inspection Preview screen, tap the 'Start Inspection' button on the bottom of the screen.

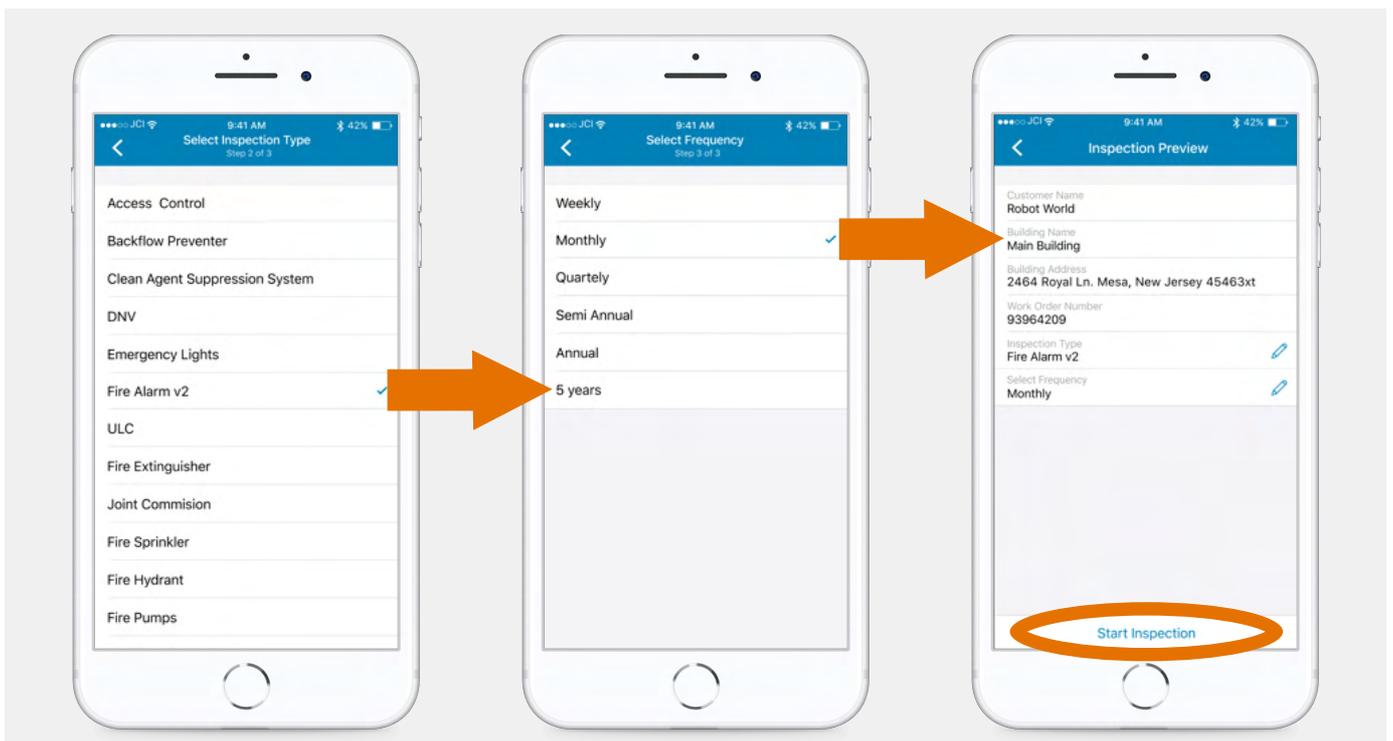


Figure 9: Selecting inspection type, frequency and start inspection

7. In the Inspection Summary screen, tap the 'Menu' icon, in the top left corner. Then, select 'Panels/Initiating Devices' from the side menu. (see figure 10)

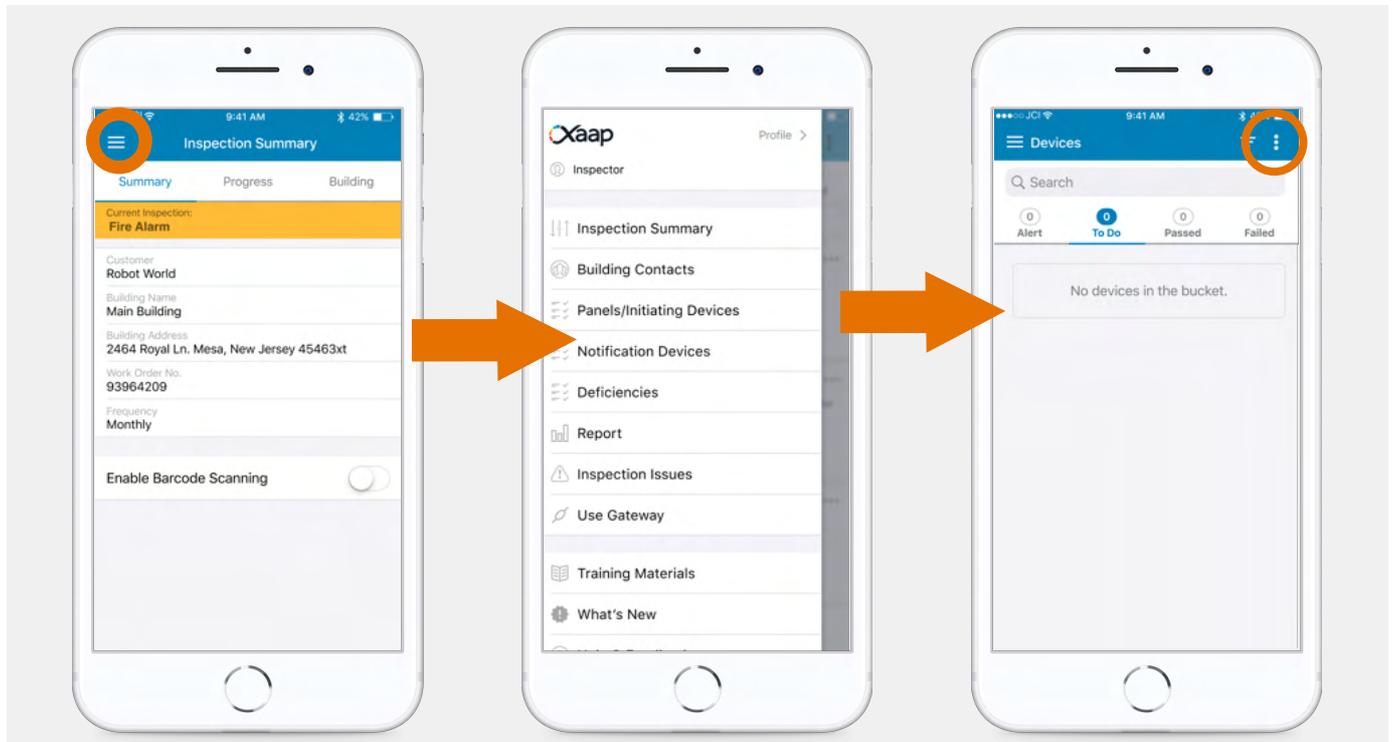


Figure 10: Navigate to device list screen

8. Tap on the three dots in the top right corner and then click 'Add New Device'.

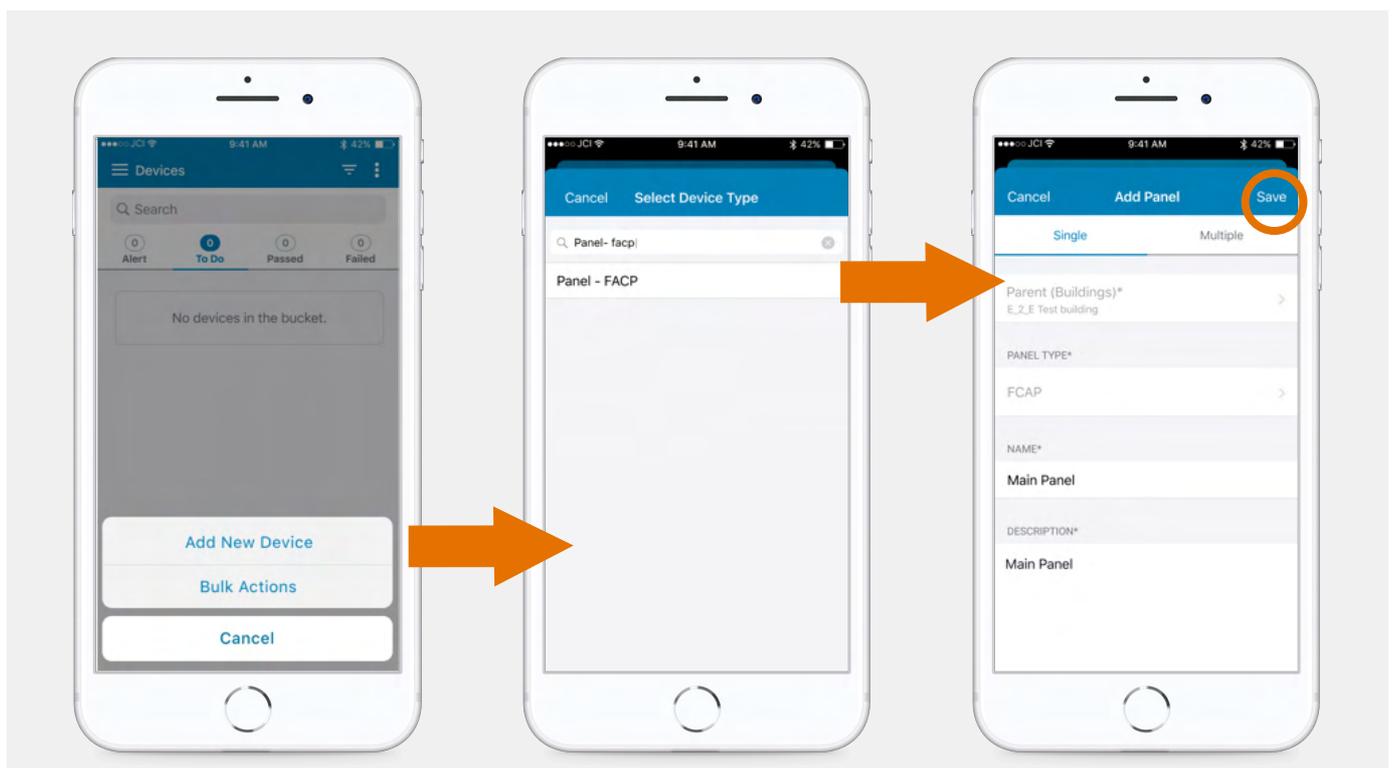


Figure 11: Adding a fire panel to the inspection

9. Search for and select 'Panel – FACP'. Then, click 'Next'. (see figure 11)
10. Fill in all required panel details, then click 'Save' in the top right corner.

**Note:** Make sure that the serial number you enter is correct, otherwise you will not have access to the panel commands!

## Use Gateway in the Xaap Mobile Application

The next step is to add a gateway in the Xaap mobile application and begin to use the gateway in an inspection.

1. Tap the menu icon in the top left corner and select the option 'Use Gateway' from the side menu.

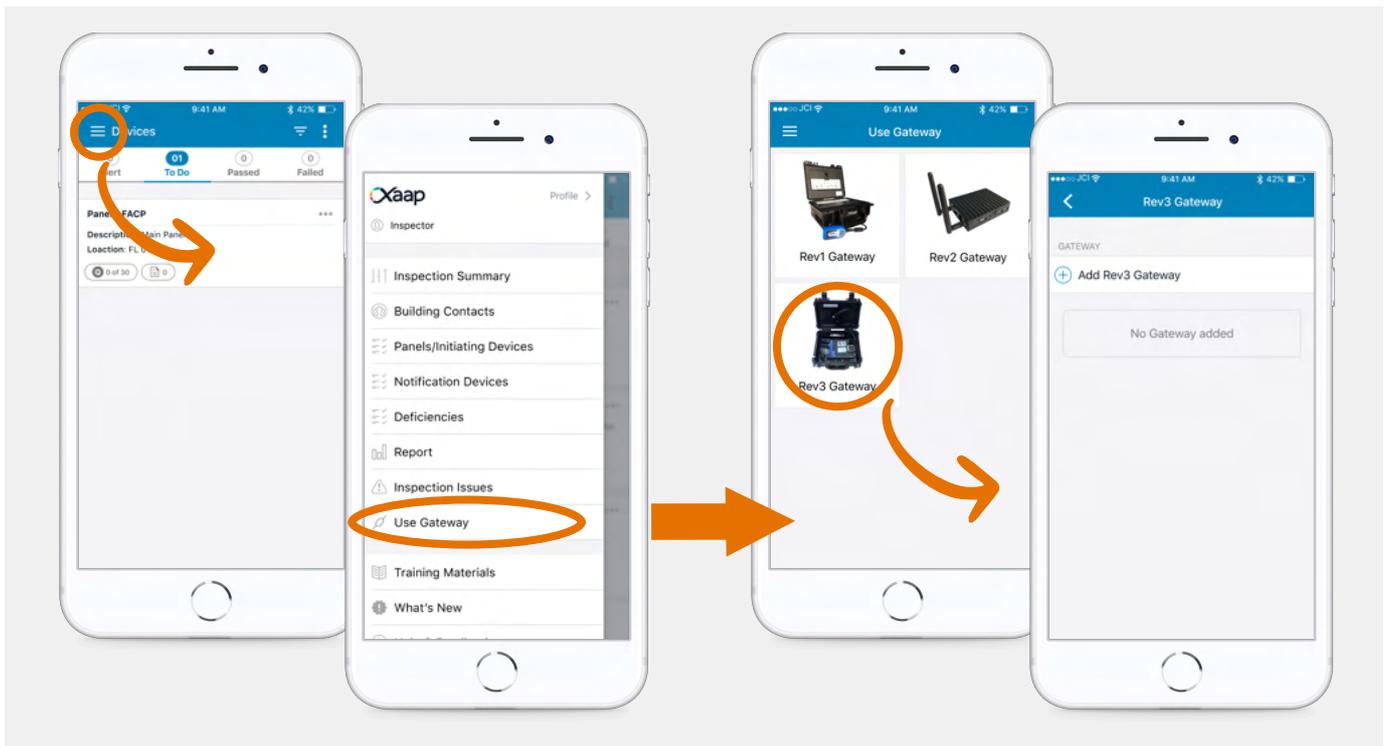


Figure 12. Add rev3 gateway to inspection

2. Tap on the Rev3 Gateway option, then select the "Add Rev3 Gateway" button to start adding the gateway to Xaap. There will be the two options presented on how you would like to "add Rev 3 gateway" the options are; Enter Manually or Scan QR code. (See figure 13 & 14)

**Tip:** The QR code for the GUID can be found on the label on the gateway inside the case.

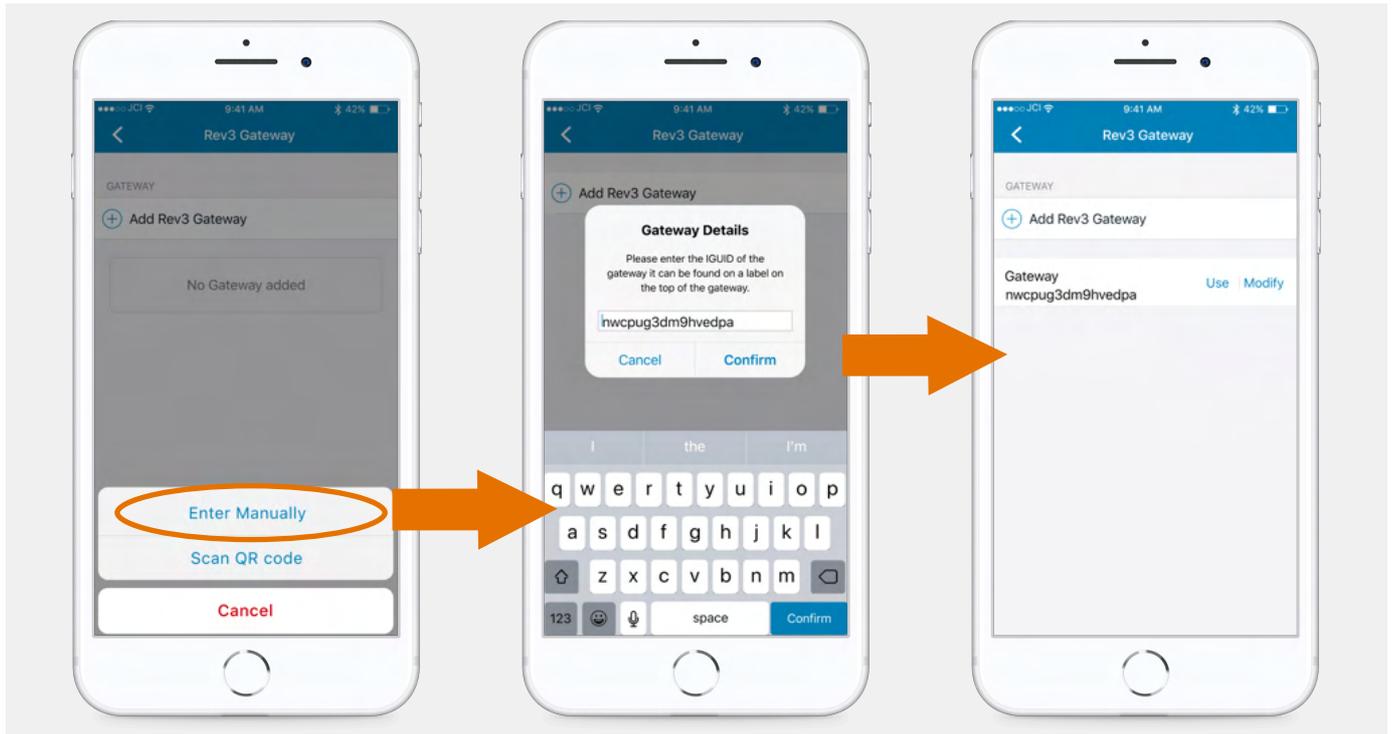


Figure 13. Enter GUID manually to add gateway

**3(a).** To add a gateway manually, select 'enter manually' option and type the gateway GUID, then tap confirm.

**3(b).** To add a gateway by scanning the QR Code tap on the 'Scan QR code' button and move the dotted rectangle over the QR code sticker positioned on the gateway.

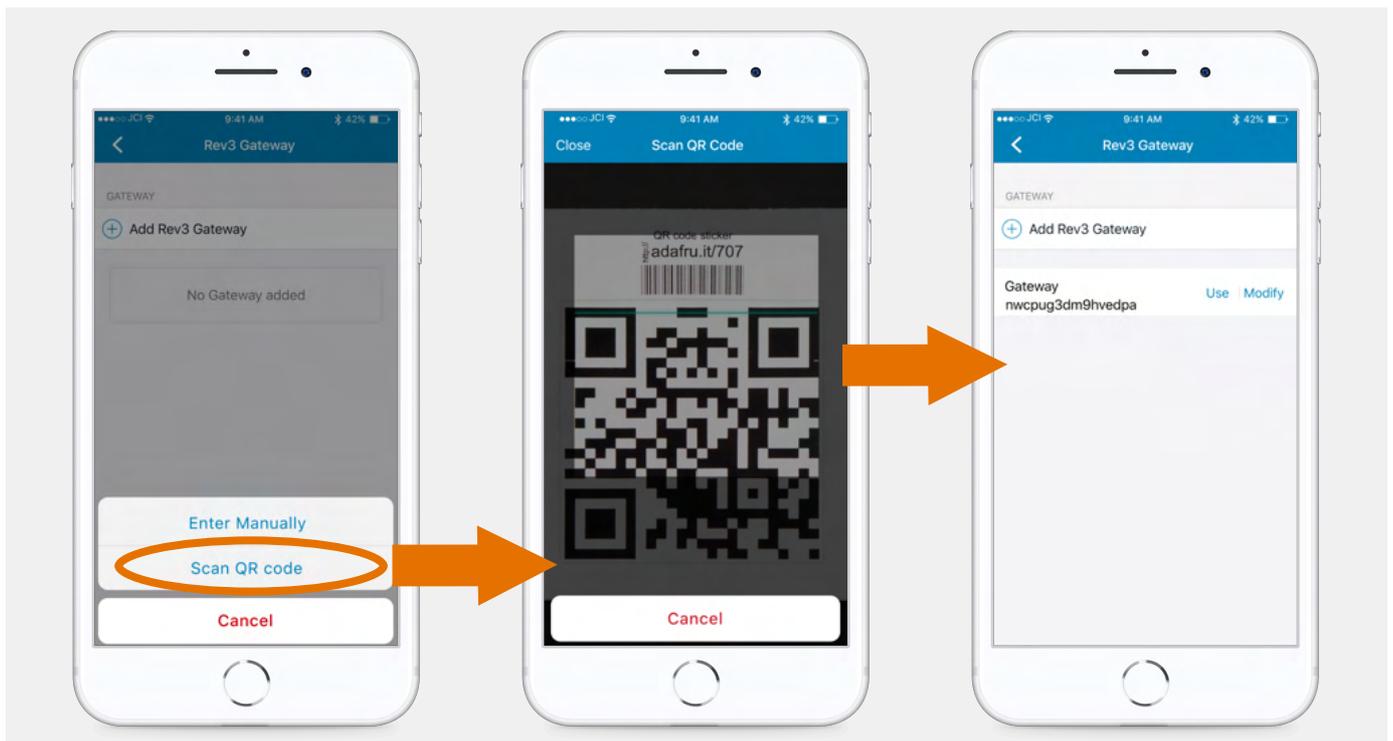


Figure 14: Scan QR code to add gateway

4. After adding a gateway manually or by scanning a QR code, the gateway with the associated GUID will appear in the list of added gateways. From there, select 'Use'.

5. By selecting 'Use' the next screen will tell you whether your Gateway is online or not. When the gateway is online, and the panel is connected you will see the panel commands available for the inspection. (Figure 15)

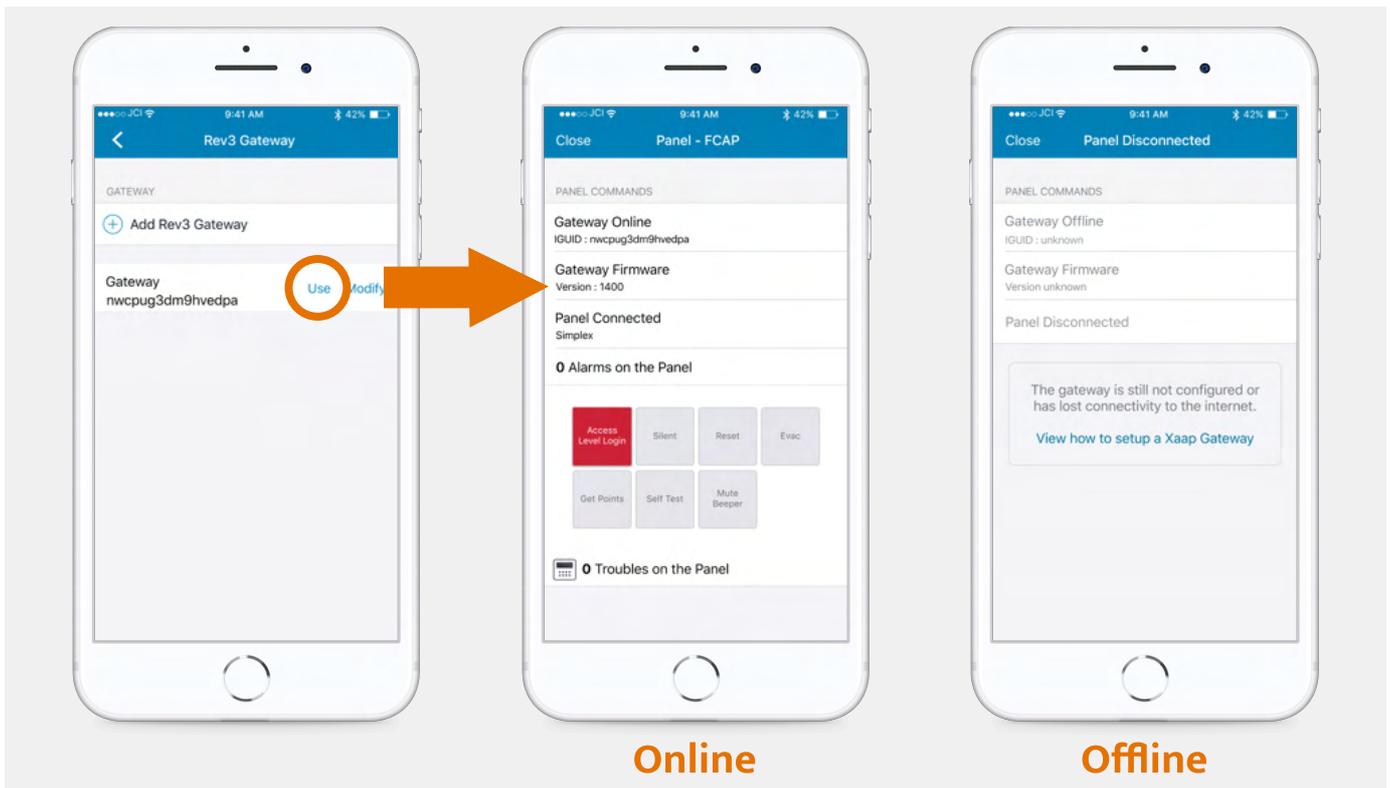


Figure 15: Selecting use gateway and online/offline state of panel commands interface.

6. If the gateway is online but the panel shows up as 'Disconnected'. Please ensure the gateway is connected to the fire panel securely and correctly. Return to "Connecting Rev3 gateway to fire panel" section on page 2 for more information.

**Note:** If the green 3G/4G light is solid green on gateway itself but the Gateway is not appearing online in Xaap Mobile App. Please get in contact with our support team [support@xaapbuildings.com](mailto:support@xaapbuildings.com)

7. Once the gateway is online, and the panel is connected you must enter the access level passcode in order to enable the commands. To do this tap the 'Access Level Login' command and type in the passcode to raise the access level to level 3 or level 4. This will enable the available panel commands. (See figure 16)

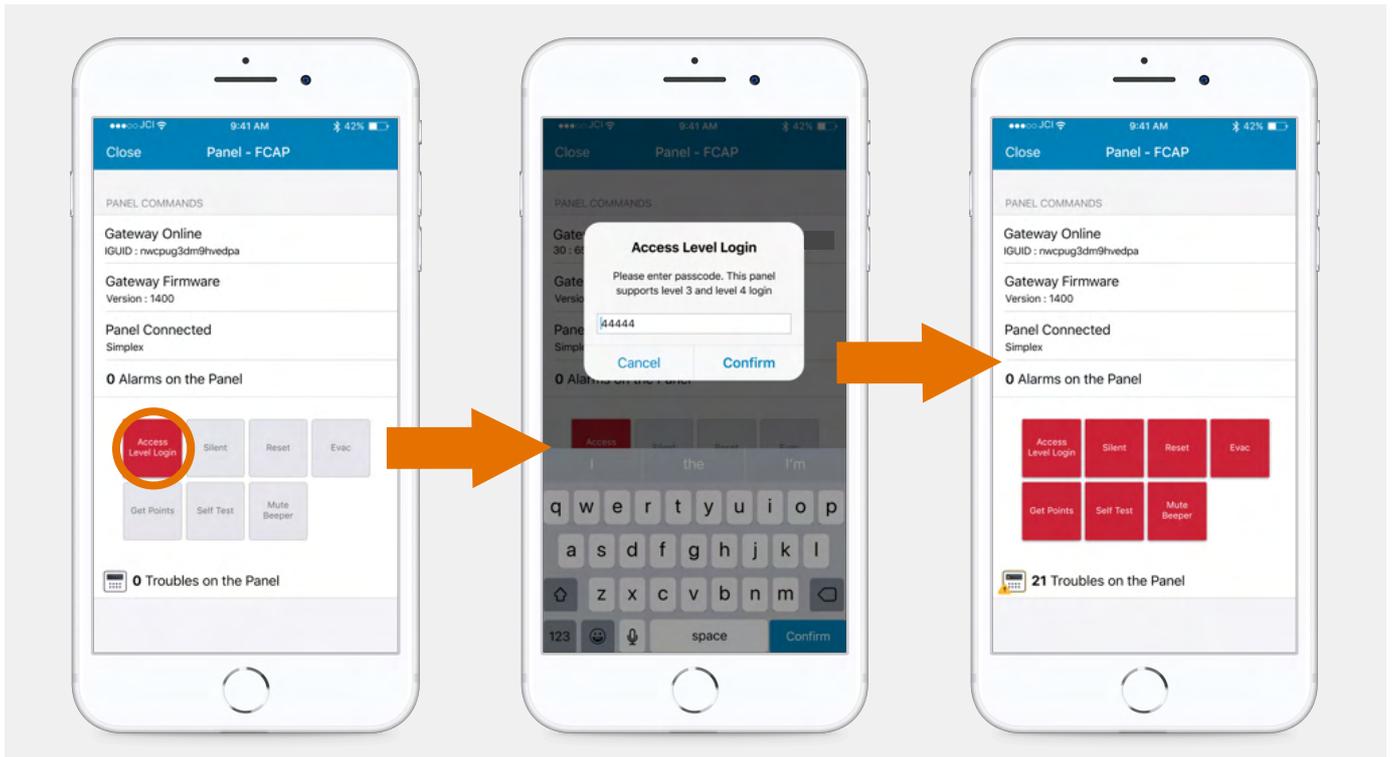


Figure 16: Enter access level passcode to enable commands

8. Once the access level has been raised, you can access all available panel commands, either directly via this screen, or anywhere in your inspection by clicking the panel icon at the bottom of the screen.

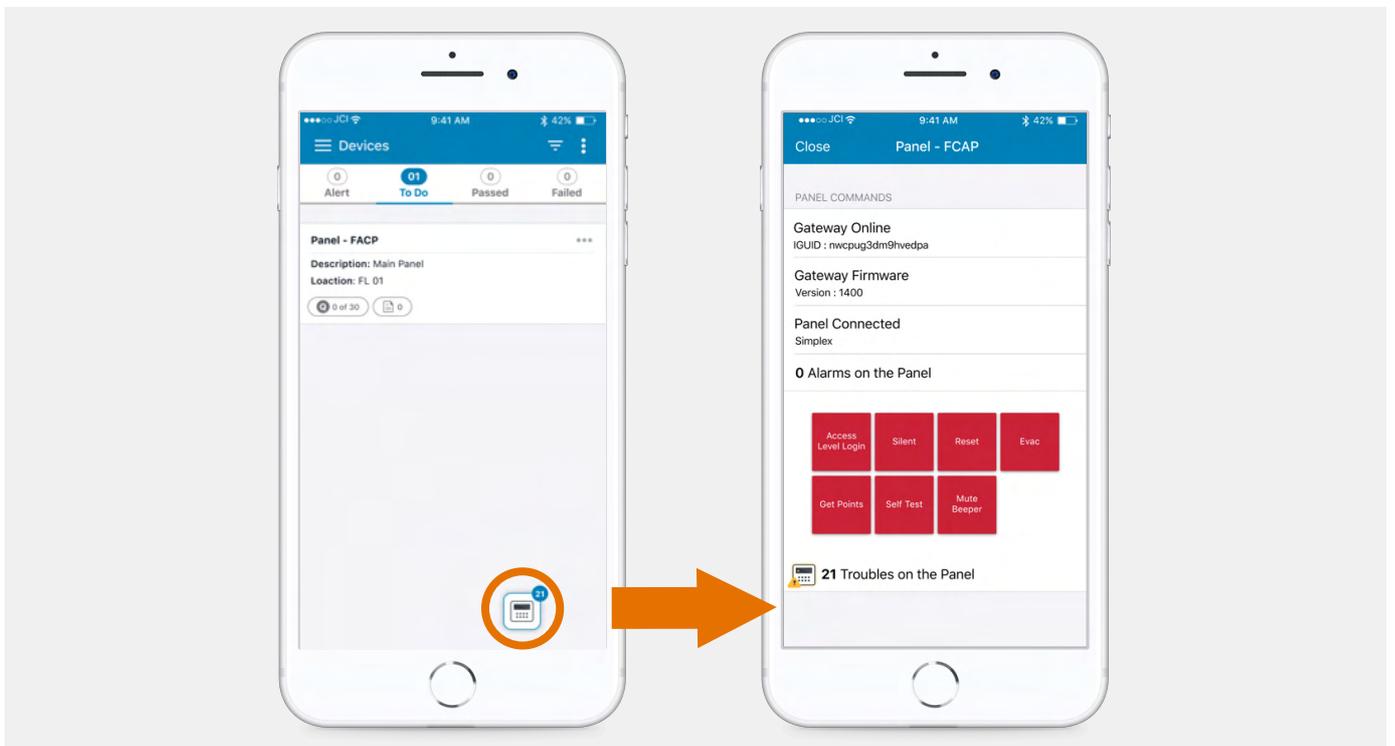


Figure 17: Panel icon provides a shortcut to the panel commands screen

## Available Panel Commands

While the gateway is connecting the panel to Xaap, there are a number of different commands you can send to the FACP:

- **Reset** – carries out a system reset and clears active alarms on the panel.
- **Silence** – silences the panel alarm signals.
- **Access Level** – allows you to change the user access level. (you will need to raise it to level 4, before any other commands can be sent to the panel)
- **EVAC** – in case of an emergency; exits test mode and triggers the evacuation switch on the panel.
- **Get Points** – pulls inventory from a panel so the devices can be tested using the Xaap mobile application.
- **Self-Test** – generates a report which indicates whether the devices have passed or failed. The report can then be viewed in Xaap mobile application.
- **Mute beeper** – Silences and Unsilences the beeper on the panel itself.



**Tip:** We recommend resetting the alarms before the number of active alarms reaches 15, or the panel assumes there is a real fire and triggers alerts accordingly.

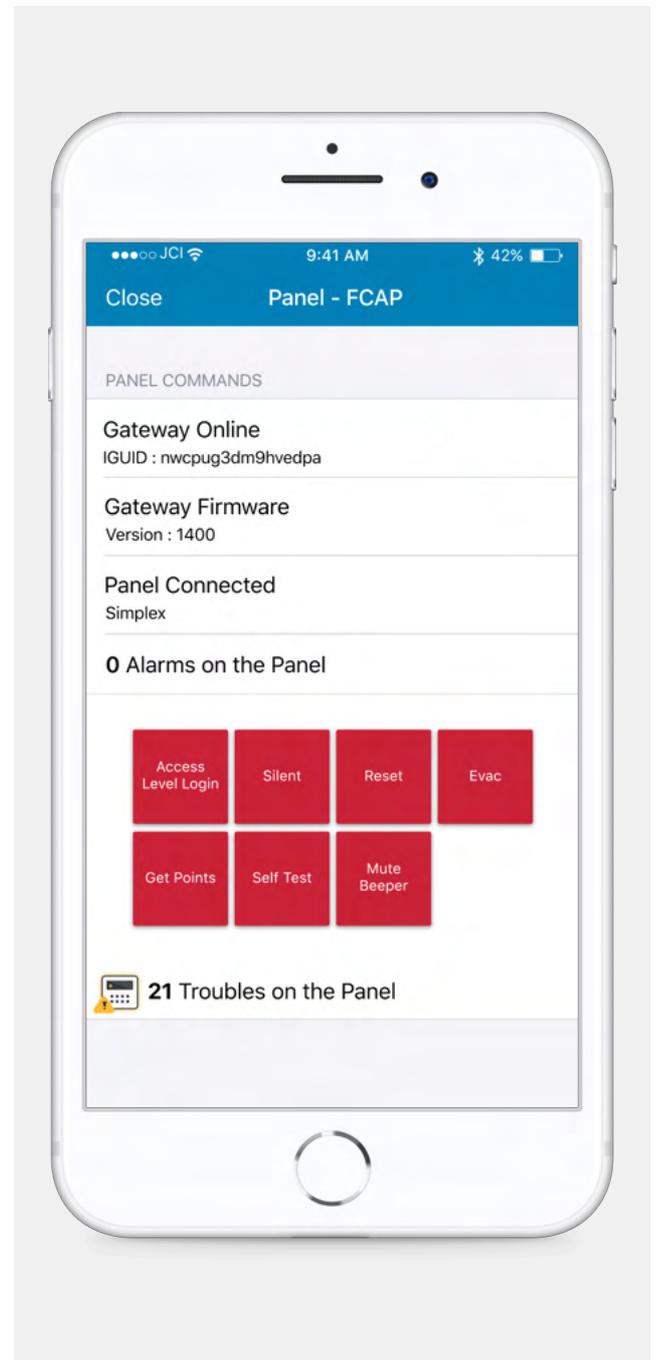


Figure 18: Available panel commands